

NASA PRINCIPAL CENTER FOR REGULATORY RISK ANALYSIS AND COMMUNICATION

NASA's Agency-Wide Strategy for Environmental Regulatory Risk Analysis and Communication

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Agenda

- Overview: Principal Center for Regulatory Risk Analysis and Communication (RRAC PC)
- Regulatory Tracking and Communication Process





RRAC PC Overview

- NASA's Agency-wide resource for identifying and managing risks associated with changing environmental regulations
- Goals of the RRAC PC
 - Proactively detect, analyze and communicate environmental regulatory risks to NASA Programs and facilities
 - Communicate with regulators and participate in the mitigation of such risks
 - Provide centralized support on emerging regulations to NASA HQ Environmental Management Division





RRAC PC Focus in Perspective

Risks posed by the Program to the environment

- Identified under NEPA through the Environmental Impact Statement (EIS) process prior to Program inception
- The EIS describes programmatic options and addresses environmental considerations associated with each, usually in a one-time effort

Risks posed <u>to</u> the Program by environmentally-related drivers

- On-going effort through the life of the Program
- Risk to Program grows with time due to changes in laws and regulations
- Active participation in legislative and rulemaking processes reduces Program risk





Regulations Can Drive Program Risks

Changing regulations have the potential to affect program activities directly and indirectly

- Could restrict certain activities, operations, or right to operate
 - > Changes in operational activities
 - High-efficiency spray equipment
 - Quantities of thinner allowed for coating application
 - > Limitations on where or how operations can take place
 - In spray booths rather than "in the field"
 - * Require dipping or brushing instead of spraying
 - > Changes to protective equipment requirements
- Could affect availability and usage of materials
 - Production phase-out or restriction on ability to apply or use materials
 - ODSs, brominated flame retardants, and others
 - Formulation changes by vendors to critical materials and/or components
 - ❖ Despite contractual notification clauses, can happen without notification
 - ➤ May require material replacement efforts
 - Replacement costs; potential schedule impacts; potential performance variance





Regulatory Tracking Process

RRAC PC Regulatory Monitoring

- Evolving applicability and relevance guidelines
 - > Programmatic
 - ❖ human spaceflight, other space vehicles, aeronautics programs
 - ❖ direct and indirect impacts
 - ❖ critical supply chain issues
 - Facilities
 - ❖ NASA Centers
 - ❖ Other critical processing facilities
 - Emergency landing sites abroad



Recognize that the requirements of Programs and supporting Facilities CHANGE and that those changes can affect the applicability of emerging regulatory requirements

Example: Regulatory applicability thresholds





Regulatory Tracking Process

RRAC PC Regulatory Monitoring

- Monitor emerging regulatory information from appropriate sources
 - > "Official" Sources
 - Federal Register and Semiannual Regulatory Agenda
 - State regulatory notices
 - Other countries and international organizations
 - Other Sources
 - * Regular communication with regulators
 - * Networks with other stakeholders, especially other Federal agencies
 - Industry concerns
 - Global trends
 - 1. Statutory and regulatory requirements CHANGE



- Just because a requirement doesn't affect you directly, doesn't mean it will not impact your operations at some point in time
- 3. The best information on emerging requirements is often found on the "grapevine"
 - Example: European Union regulations and international partnerships





Regulatory Risk Management Process

RRAC PC Regulatory Communication

- When significant regulatory changes are identified, timely communication is essential
 - ➤ Communication of changing requirements to the regulatory stakeholders NASA Programs and Facilities
 - ➤ Communication of potential issues to management and, when appropriate, back to the regulating agency





Regulatory Communications Process

RRAC PC Regulatory Communication

- Communicate regulatory changes to the affected NASA Community
 - General alerts and summaries
 - Specifically-targeted technical working groups
- Solicit feedback on potential impacts from emerging regulatory changes
 - Direct or indirect impacts
 - Short-term or long-term
 - Include worst-case scenario
 - 1. Insist on knowing your technical community; they are the ones who know when a "potential impact" becomes an "issue"

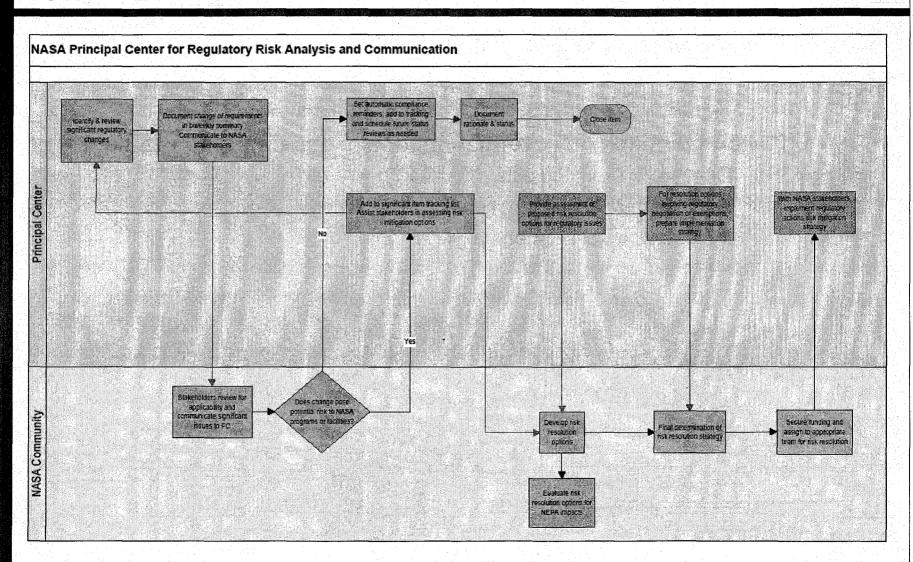


- 2. For potentially mission-critical impacts, don't assume the information will filter to the right person or organization HUNT THEM DOWN
- 3. Don't assume your Program is immune just because the requirement doesn't directly affect you you rely on your SUPPLY CHAIN
- 4. In determining potential impacts, be twice as pessimistic as the life of your Program





RRAC PC Program Support: "Swim Lanes"







Regulatory Communications Process

RRAC PC Regulatory Communication

- Communicate identified impacts to management
 - > Assess mitigation options
 - > Follow the "greenest" path that still meets Mission requirements
- When necessary, communicate issues to regulators
 - Sometimes mission-critical technical performance or safety-related factors must be considered
 - Collaboration with regulators can produce effective, innovative regulatory solutions



- 1. Honest, open bilateral communications with regulators is essential
- 2. Focusing on technical requirements, data, and Mission success goes a long way toward establishing credibility
- 3. A clear, proven COMMITMENT TO DO THE RIGHT THING speaks volumes





Questions?

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